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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,947	02/27/2004	Deepika Srinivasan	24174-08750	5800
758 FENWICK & V	7590 07/16/200 VEST LLP	EXAMINER		
SILICON VAL		ANYIKIRE, CHIKAODILI E		
801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041			ART UNIT	PAPER NUMBER
			2621	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/789,947	SRINIVASAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	CHIKAODILI E. ANYIKIRE	2621				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 11 Ma	av 2009.					
	action is non-final.					
·=						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-16,20,22-53 and 57-79</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16,20,22-53 and 57-79</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8)☐ Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	٠.					
10)⊠ The drawing(s) filed on <u>27 <i>February 2004</i></u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of	or the certified copies flot receive	u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				

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## **DETAILED ACTION**

1. This application is responsive to application number (10789947) filed on February 27, 2004. Claims 1-16, 20, 22-53, 57-79 are pending and have been examined.

## Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 11, 2009 has been entered.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claims 1-18 and 20-56 and 58 rejected under 35 U.S.C. 103(a) as being unpatentable over Biswas et al (US 7, 197, 074) in view of Burl (US 5,940,145) in further view of Pau et al (US 2002/0012396, hereafter Pau).

As per **claim 1**, Biswas et al disclose a computer implemented method of determining a motion vector for encoding a block of a predicted frame with respect to a reference frame, the method comprising (Fig 1, Col 3 Ln 15-16):

establishing a size for phase correlation blocks, the size of the phase correlation blocks being larger than the maximum allowable magnitude of the motion vector (col 3 lns 59-61; Biswas discloses the size of phase correlation blocks);

wherein an inner area of the phase correlation block of the predicted video frame, the inner area having a size equal to or less than the maximum allowable magnitude of a motion vector (col 4 lns 55-61; Biswas discloses detecting motion vectors of a subblock which is an inner block of the entire phase block),

the phase correlation block of the predicted frame including the block, wherein the number of identified phase correlation peaks increases as the size of the phase correlation block increases (Fig 4, Correlation surface 400; Col 4 Ln 49-52 and Col 6 Ln 9-12);

determining for each phase correlation peak identified in the inner area, a motion vector (Col 4 Ln 49-52); and

selecting from the motion vectors, a motion vector that minimizes a distortion measure between the block and a reference block offset from the block by motion vector (Col 5 Ln 62 – Col 6 Ln 5 and Col 7 Ln 4-11; the applicant argues that the prior art is not sufficient for this claim limitation, the examiner respectfully disagrees. The prior art discloses a tolerance level of error and finds a motion vector that is below this level and therefore minimizes the distortion that is possible. What the applicant is suggesting is not claimed in the claim language and therefore is left open for the broadest interpretation, which Biswas1 meets).

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However, Biswas1 does not explicitly teach identifying a number of highest phase correlation peaks between a phase correlation block of the predicted frame and a corresponding phase correlation block of the reference frame.

In the same field of endeavor, Burl teaches identifying a number of highest phase correlation peaks between a phase correlation block of the predicted frame and a corresponding phase correlation block of the reference frame (Fig 1 element 10, Col 2 Ln 57-65; Burl discloses identifying the five highest peaks with a peak hunter).

Therefore, it would have been obvious for one having skill in the art at the time of the invention to modify the invention of Biswas1 with the peak hunter of Burl. The advantages would be that the system would exploit the natural strengths of each technique and be less complex and more certain than current methods (Col 2 Ln 44-46).

However, Biswas1 or Burl does not teach selecting from the determined motion vectors, a motion vector that has a minimum distortion.

In the same field of endeavor, Pau teaches selecting from the determined motion vectors, a motion vector that has a minimum distortion (paragraph [0042]; Pau teaches that determined motion vectors, candidate motion vectors, selects the candidate with the minimum SAD value in relation to motion estimation.

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Therefore, it would have been obvious for one having skill in the art at the time of the invention to modify the invention of Biswas1 in view of Burl in further view of Pau.

Using the minimum SAD value is well-known practice motion estimation and the advantage would be selecting the optimum motion vector for motion compensation.

As per **claim 2**, Biswas et al disclose a computer implemented method of claim 1, wherein identifying at least one highest phase correlation peak between a phase correlation block of the predicted video frame and a corresponding phase correlation block of the reference video frame, comprises:

applying a Fourier transform to a phase correlation block of predicted video frame and a corresponding phase correlation block of the reference video frame (Fig 1, 104, Col 3 Ln 55-61 and Col 4 Ln 16-18);

determining a normalized cross product of the Fourier transforms (Fig 1, 108 and 110, Col 4 Ln 31-44);

determining an inverse Fourier transform to obtain a phase correlation surface (Fig 1, 112; Col 4 Ln 45-49); and

determining at least one peak on phase correlation surface (Col 4 Ln 49-52).

As per **claim 3**, Biswas et al disclose the computer implemented method of claim 1, wherein identifying at least one highest phase correlation peak, comprises:

determining for each peak a motion vector (Col 4 Ln 49-52);

selecting from the determined motion vectors, a motion vector that minimizes a distortion measure between the block and a block of the reference video frame offset from the block by the motion vector (Col 5 Ln 62 – Col 6 Ln 5 and Col 7 Ln 4-11).

As per **claim 4**, Biswas et al disclose the computer implemented method of claim 1, wherein selecting a motion vector, comprises:

applying each of the motion vectors to the block to obtain the reference block in the reference video frame (Col 5 Ln 14-19);

selecting the motion vector that minimizes a distortion measure between the block and the reference block (Col 5 Ln 62- Col 6 Ln 5 and Col 7 Ln 4-11).

As per **claim 5**, Biswas et al disclose the computer implemented method of claim 1, wherein each phase correlation block has horizontal and vertical dimensions that are a function of a maximum magnitude of the motion vectors (Col 4 Ln 19-24).

As per **claim 7**, Biswas et al disclose the computer implemented method of claim 1, further comprising:

applying to the phase correlation block of the predicted video frame a windowing function prior to determining the at least one phase correlation peak (Fig 1, 102; Col 3 Ln 45 - 54).

As per **claim 8**, Biswas et al disclose the computer implemented method of claim 7, wherein the windowing function reduces discontinuity between adjacent phase correlation block (Fig 1, 102, Col 3 Ln 45 – 54).

As per **claim 9**, Biswas et al disclose the computer implemented method of claim 7, wherein the windowing function is a smoothing function at the edges of the phase correlation block (Fig 1, 102, Col 3 45 – 54 and Col 3 Ln 65 – Col 4 Ln 2).

As per **claim 12**, Biswas et al disclose the computer implemented method of claim 1, wherein phase correlation blocks of the predicted frame are non-overlapping (Fig 5, Col 5 Ln 14 –38).

As per **claim 13**, Biswas et al disclose the computer implemented method of claim 1, wherein phase correlation blocks of the predicted frame are overlapping (Col 3 Ln 62 – Col 4 Ln 9).

As per **claim 14**, Biswas et al disclose the computer implemented method of claim 13, wherein the phase correlation blocks overlap by a minimum overlap value, where the minimum overlap value is greater than or equal to a maximum magnitude of the motion vectors (Col 3 Ln 62 – Col 4 Ln 9).

As per **claim 15**, Biswas et al disclose the computer implemented method of claim 13, wherein selecting from the motion vectors comprises selecting from the motion vectors associated with all phase correlation blocks that include the block (Col 5 Ln 62 – Col 6 Ln 5).

As per **claim 16**, Biswas et al disclose the computer implemented method of claim 1, wherein determining a number of phase correlation peaks comprises:

determining a fixed number of correlation peaks (Col 4 Ln 49-59).

As per **claim 22**, Biswas et al disclose the computer implemented method of claim 1, wherein selecting a motion vector comprises:

selecting a first motion vector which reduces the distortion measure below a threshold value (Col 5 Ln 46-50).

As per claim 23, Biswas et al disclose the computer implemented method of claim 22, wherein the threshold is a fixed distortion threshold (Col 5 Ln 46 - 50).

As per **claim 24**, Biswas et al disclose the computer implemented method of claim 22, wherein the threshold is an adaptive distortion threshold (Col 5 Ln 46 - 54).

As per **claim 25**, Biswas et al disclose the computer implemented method of claim 24, wherein the adaptive distortion threshold is a minimum distortion measure of a plurality of neighboring blocks (Col 5 Ln 46 - 54).

Regarding **claim 26**, arguments analogous to those presented for claim 1 are applicable for claim 26.

Regarding **claim 27**, arguments analogous to those presented for claim 1 are applicable for claim 27.

Regarding **claim 28**, arguments analogous to those presented for claim 1 is applicable to claim 28.

Regarding **claim 29**, arguments analogous to those presented for claim 2 is applicable to claim 29.

Regarding **claim 30**, arguments analogous to those presented for claim 3 is applicable to claim 30.

Regarding **claim 31**, arguments analogous to those presented for claim 4 is applicable to claim 31.

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Regarding **claim 32**, arguments analogous to those presented for claim 5 is applicable to claim 32.

Regarding **claim 34**, arguments analogous to those presented for claim 7 is applicable to claim 34.

Regarding **claim 35**, arguments analogous to those presented for claim 8 is applicable to claim 35.

Regarding **claim 36**, arguments analogous to those presented for claim 9 is applicable to claim 36.

Regarding **claim 39**, arguments analogous to those presented for claim 12 is applicable to claim 39.

Regarding **claim 40**, arguments analogous to those presented for claim 13 is applicable to claim 40.

Regarding **claim 41**, arguments analogous to those presented for claim 14 is applicable to claim 41.

Regarding **claim 42**, arguments analogous to those presented for claim 15 is applicable to claim 42.

Regarding **claim 43**, arguments analogous to those presented for claim 16 is applicable to claim 43.

Regarding **claim 44**, arguments analogous to those presented for claim 17 is applicable to claim 44.

Regarding **claim 45**, arguments analogous to those presented for claim 18 is applicable to claim 45.

Regarding **claim 49**, arguments analogous to those presented for claim 22 is applicable to claim 49.

Regarding **claim 50**, arguments analogous to those presented for claim 23 is applicable to claim 50.

Regarding **claim 51**, arguments analogous to those presented for claim 24 is applicable to claim 51.

Regarding **claim 52**, arguments analogous to those presented for claim 25 is applicable to claim 52.

Regarding **claim 53**, arguments analogous to those presented for claim 1 is applicable to claim 53.

. Regarding **claim 59**, arguments analogous to those presented for claim 1 is applicable to claim 59.

Regarding **claim 60**, arguments analogous to those presented for claim 1 is applicable to claim 60.

Regarding **claim 61**, arguments analogous to those presented for claim 1 is applicable to claim 61.

As per **claim 62**, Biswas discloses the computer implemented method of claim 1, wherein the maximum allowable magnitude of the motion vector is based on an encoding parameter for controlling image quality (col 3 lns 62-64 and col 4 lns 58-67).

As per **claim 63**, Biswas discloses the computer implemented method of claim 1, wherein the number of identified phase correlation peaks increases as the size of the phase correlation block increases (col 3 lns 55-67).

As per **claim 64**, Biswas discloses the computer implemented method of claim 1, wherein the inner area of the phase correlation block is centrally positioned within the phase correlation block (col 3 lns 55-67).

Regarding **claim 65**, arguments analogous to those presented for claim 62 is applicable to claim 65.

Regarding **claim 66**, arguments analogous to those presented for claim 63 is applicable to claim 66.

Regarding **claim 67**, arguments analogous to those presented for claim 64 is applicable to claim 67.

Regarding **claim 68**, arguments analogous to those presented for claim 62 is applicable to claim 68.

Regarding **claim 69**, arguments analogous to those presented for claim 63 is applicable to claim 69.

Regarding **claim 70**, arguments analogous to those presented for claim 64 is applicable to claim 70.

Regarding **claim 71**, arguments analogous to those presented for claim 62 is applicable to claim 71.

Regarding **claim 72**, arguments analogous to those presented for claim 63 is applicable to claim 72.

Regarding **claim 73**, arguments analogous to those presented for claim 64 is applicable to claim 73.

Regarding **claim 74**, arguments analogous to those presented for claim 62 is applicable to claim 74.

Regarding **claim 75**, arguments analogous to those presented for claim 63 is applicable to claim 75.

Regarding **claim 76**, arguments analogous to those presented for claim 64 is applicable to claim 76.

Regarding **claim 77**, arguments analogous to those presented for claim 62 is applicable to claim 77.

Regarding **claim 78**, arguments analogous to those presented for claim 63 is applicable to claim 78.

Regarding **claim 79**, arguments analogous to those presented for claim 64 is applicable to claim 79.

6. Claims 6 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biswas et al (US 7, 197, 074) in view of in view of Burl (US 5,940,145) in further view of Pau et al (US 2002/0012396) in further view of Zhang et al (US 6, 449, 312).

As per **claim 6**, Biswas et al discloses the search window dimensions are integers of powers 2.

However, Biswas et al does not disclose the search window dimensions greater than 2S+16 in horizontal and vertical direction, respectively.

In the same field of endeavor, Zhang et al disclose motion estimation for a current macroblock (conventionally 16x16 pixels (Fig 1, image block 2; Col 2 Ln 37-40;

Col 3 Ln 29-35)). Zhang et al further disclose that the search window of motion displacement can be as large as 128 pixels (Col 1 Ln 36-43; search windows are conventionally 32x32, 64x64, 128x128, etc., wherein all M and N are integers each a power of 2). Considering search window 4 in Fig 1 being a motion of 128x128, the maximum horizontal and vertical components of MV97) will be 32 pixels. The configuration meets the (i.e.,  $S_h$  and  $S_v$ ) relation N or M >  $2S_h16$  or  $2S_v+16$ .

Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the method of Biswas et al with the search window function of Zhang et al because a larger search areas will result in more accurate motion estimation and enhanced image quality.

Regarding **claim 33**, arguments analogous to those presented for claim 6 is applicable to claim 33.

7. Claims 10-11 and 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biswas et al (US 7, 197, 074) in view of in view of Burl (US 5,940,145) in further view of Pau et al (US 2002/0012396) in further view of Aude, Ario. "A Tutorial in Coherent and Windowed Sampling with A/D Converters". February 1997.

As per **claim 10**, Biswas et al disclose the computer implemented method of claim 7.

However, Biswas et al does not explicitly each wherein the windowing function is an extended 2D cosine bell function.

In the same field of endeavor, Aude discloses wherein the windowing function is an extended 2D cosine bell function (page 7, Extended Cosine Bell).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the method of Biswas et al with the window function of Aude. The advantage of window function is that it prevents leakage in a signal and performing 2D cosine bell windowing function is a well-known procedure conventionally implemented prior to Fourier Transformation.

As per **claim 11**, Biswas et al disclose the computer implemented method of claim 10.

However, Biswas et al disclose the windowing function is:

$$W(m,n) = \begin{cases} \frac{1}{2} \left[ 1 - \cos\left(\frac{16 * m * \Pi}{M}\right) \right] * \frac{1}{2} \left[ 1 - \cos\left(\frac{16 * n * \Pi}{N}\right) \right] ... for \left(\frac{M}{16} \le m...or...m \ge \frac{15 * M}{16}\right) and \left(\frac{N}{16} \le n...or...m \ge \frac{15 * M}{16}\right) and \left(\frac{N}{16} \le n...or...or...m \ge \frac{15 * M}{16}\right) and \left(\frac{N}{16} \le n...or...or...m \ge \frac{15 * M}{16}\right) and \left(\frac{N}{16} \le n...or...or...or...or...or...or...$$

where M is a width of a phase correlation block and N is a height of a phase correlation block.

In the same field of endeavor, Aude teaches the windowing function which is analogous to windowing function of claim 11:

$$A = \left\{ \frac{1}{2} \left[ 1 - \cos \left( \frac{16 * t * \Pi}{T} \right) \right] ... for (t == 0...to...T / 10...and...t = 9T / 10...to...T), and \right\}$$

$$A = \left\{ A = 1... for...t = T / 10...to...9T / 10.$$

where M is a width of a phase correlation block and N is a height of a phase correlation block (pg7, extended cosine bell selecting a denominator of 16 instead of 10 is an obvious option for image processing).

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Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to consider an interval of 1/16 instead of 1/10 (conventional interval in image coding) to obtain:

$$W(m,n) = \begin{cases} \frac{1}{2} \left[ 1 - \cos\left(\frac{16 * m * \Pi}{M}\right) \right] * \frac{1}{2} \left[ 1 - \cos\left(\frac{16 * n * \Pi}{N}\right) \right] ... for \left(\frac{M}{16} \le m...or...m \ge \frac{15 * M}{16}\right) and \left(\frac{N}{16} \le n...or...n \ge \frac{15 * M}{16}\right)$$

. The advantage of window function is that it prevents leakage in a signal and performing 2D cosine bell windowing function is a well-known procedure conventionally implemented prior to Fourier Transformation.

Regarding **claim 37**, arguments analogous to those presented for claim 10 is applicable to claim 37.

Regarding **claim 38**, arguments analogous to those presented for claim 11 is applicable to claim 38.

8. Claims 20, 21, 46, 47, 48, 57 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biswas et al (US 7, 197, 074) in view of in view of Burl (US 5,940,145) in further view of Pau et al (US 2002/0012396) in further view of Biswas et al. "A Novel Motion Estimation Algorithm Using Phase Plane Correlation for Frame Rate Conversion". November 2002 (hereafter Biswas2).

As per **claim 20**, Biswas et al disclose the computer implemented method of claim 1.

However, Biswas et al does not teach wherein determining at least one phase correlation peak comprises interpolating subpixel peak values from the phase correlation peaks at pixel locations in the phase correlation block.

In the same field of endeavor, Biswas et al teach wherein determining at least one phase correlation peak comprises interpolating subpixel peak values from the phase correlation peaks at pixel locations in the phase correlation block (Section 4).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the method of Biswas et al with the method of Biswas et al. The advantage is that it compensates for the speed of motion.

As per **claim 46**, Biswas et al disclose the apparatus of claim 1.

However, Biswas et al does not teach wherein determining at least one phase correlation peak comprises:

determining a number of correlation peaks as a function of a variance of the values of the values of the phase correlation peaks

In the same field of endeavor, Biswas et al teaches wherein determining at least one phase correlation peak comprises:

determining a number of correlation peaks as a function of a variance of the values of the values of the phase correlation peaks (Section 3).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to modify the method of Biswas et al with the method of Biswas et al. The advantage is that it compensates for the speed of motion.

Regarding **claim 47**, arguments analogous to those presented for claim 20 is applicable to claim 47.

Regarding **claim 48**, arguments analogous to those presented for claim 21 is applicable to claim 48.

Regarding **claim 57**, arguments analogous to those presented for claim 46 are applicable for claim 57.

Regarding **claim 58**, arguments analogous to those presented for claim 48 are applicable for claim 58.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHIKAODILI E. ANYIKIRE whose telephone number is (571)270-1445. The examiner can normally be reached on Monday to Friday, 7:30 am to 5 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272 - 7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/ Supervisory Patent Examiner, Art Unit 2621 /Chikaodili E Anyikire/ Patent Examiner AU 2621